

## **AMENDMENT TO THE CLAIMS**

This listing of claims will replace all prior versions, and listing, of claims in the application.

### **Listing of Claims:**

1. (canceled)
2. (currently amended) A method as claimed in claim [[1]] 2, further comprising after said calculating said difference step:  
calculating a first propagation time for a signal to propagate between said node and said other node based on said timing information, said request transmission time and said response reception time.
3. (currently amended) A method as claimed in claim 2 [[1]], wherein:  
said request transmission time and said response reception time are indicated by said local clock of said node, and said request reception time and said response transmission time are indicated by said local clock of said other node.
4. (currently amended) A method as claimed in claim 2 [[1]], wherein:  
said method performs said transmitting, receiving and calculating steps to calculate a respective said difference between the timing of said local clock of said node and a respective said local clock of each of a plurality of said other nodes.
5. (Original) A method as claimed in claim 4, further comprising:  
calculating respective said differences between the timing of respective said local clocks of each of said plurality of other nodes and each other based on said difference between said respective differences between the timing of said local clock of said node and said respective local clocks of said plurality of other nodes.

6. (currently amended) A method as claimed in claim 9[[1]], wherein:  
said network includes an ad-hoc multihopping communications network, and said node  
and said other node[s] ~~are adapted for use with~~ operate within said ad-hoc multihopping  
communications network.

7. (currently amended) A method as claimed in claim 9 [[1]], wherein:  
said node is a mobile node.

8. (currently amended) A method as claimed in claim 9 [[1]], wherein:  
said other node is a mobile node.

9. (previously presented) A method for determining a relationship between the timing of a local clock of a node with respect to the timing of a local clock of at least one other node in a wireless communications network, comprising:

transmitting a clock information request message from said node to said other node at a request transmission time;

receiving at said node a response message from said other node at a response reception time, said response message including timing information pertaining to a request reception time at which said other node received said clock information request message and response transmission time at which said other node transmitted said response message; and

calculating a difference between the timing of said local clock of said node and said local clock of said other node based on said timing information, said request transmission time and said response reception time,

controlling said other node to transmit a subsequent signal at a beginning of a time slice;

receiving said subsequent signal at said node;

calculating a subsequent transmission time at which said local clock of said other node was reading when said other node transmitted said subsequent signal based on said calculated difference between the timing of said local clock of said node and said local clock of said other node; and

comparing said subsequent transmission time to a time representing a beginning of a time slice to determine a propagation time for said subsequent signal to propagate between said other node and said node.

10. (canceled)

11. (currently amended) A system as claimed in claim [[10]] 18, wherein:

said processor further calculates a first propagation time for a signal to propagate between said node and said other node based on said timing information, said request transmission time and said response reception time.

12. (currently amended) A system as claimed in claim ~~[[10]]~~ 18, wherein:  
said request transmission time and said response reception time are indicated by said local clock of said node, and said request reception time and said response transmission time are indicated by said local clock of said other node.

13. (currently amended) A system as claimed in claim ~~[[10]]~~ 18, wherein:  
said transmitter, receiver and processor perform said transmitting, receiving and calculating, respectively, to calculate a respective said difference between the timing of said local clock of said node and a respective said local clock of each of a plurality of said other nodes.

14. (previously presented) A system as claimed in claim 13, wherein:  
said processor further calculates respective said differences between the timing of respective said local clocks of each of said plurality of other nodes and each other based on said difference between said respective differences between the timing of said local clock of said node and said respective local clocks of said plurality of other nodes.

15. (currently amended) A system as claimed in claim ~~[[10]]~~ 18, wherein:  
said network includes an ad-hoc multihopping communications network, and said node and said other nodes operate within said ad-hoc multihopping communications network.

16. (currently amended) A system as claimed in claim ~~[[10]]~~ 18, wherein:  
said node is a mobile node.

17. (currently amended) A system as claimed in claim ~~[[10]]~~ 18, wherein:  
said other node is a mobile node.

18. (previously presented) A system for determining a relationship between the timing of a local clock of a node with respect to the timing of a local clock of at least one other node in a wireless communications network, said system comprising:

a transmitter, for transmitting a clock information request message from said node to said other node at a request transmission time;

a receiver, for receiving at said node a response message from said other node at a response reception time, said response message including timing information pertaining to a request reception time at which said other node received said clock information request message and response transmission time at which said other node transmitted said response message; and

a processor, for calculating a difference between the timing of said local clock of said node and said local clock of said other node based on said timing information, said request transmission time and said response reception time,

a controller, for controlling said other node to transmit a subsequent signal at a beginning of a time slice; and

wherein:

said receiver receives said subsequent signal at said node; and

said processor calculates a subsequent transmission time at which said local clock of said other node was reading when said other node transmitted said subsequent signal based on said calculated difference between the timing of said local clock of said node and said local clock of said other node, and compares said subsequent transmission time to a time representing a beginning of a time slice to determine a propagation time for said subsequent signal to propagate between said other node and said node.